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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/976,990	10/12/2001	Reginald Mark Penner	265/165 Lyon & Lyon	3339
34313	7590 09/11/2003			
ORRICK, HERRINGTON & SUTCLIFFE, LLP			EXAMINER	
4 PARK PLA SUITE 1600			PHASGE, ARUN S	
IRVINE, CA	92614-2558		ART UNIT	PAPER NUMBER
			1753	
			DATE MAILED: 09/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner	7		Application No.	Applicant(s)			
Arun S Phasge		•	09/976,990	PENNER ET AL.			
Priod for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estamanor of time may be available used the provisions of 3 CRR 1.136(a). In no event, however, may a neply be timely filled to time may be available used the provisions of 3 CRR 1.136(a). In no event, however, may a neply be timely filled the precised for mely separated above is less than thirty (30) days, a neply within the salutiony minimum of birthy (30) days, will be considered timely. If the precised for mely separated above is less than thirty (30) days, a neply within the salutiony minimum of birthy (30) days, will be considered timely. If the precised for mely separated to reply which the set or estanded printed for reply with, by dataluto, passed the application of birth communication (51). This action is finAL.  2b) This action is FINAL.  2b) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quaryle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-22 lis/are pending in the application.  4a) Of the above claim(s) 2g is/are withdrawn from consideration.  5) Claim(s) 1-15 is/are allowed.  6) Claim(s) 1-49 and 16-19 is/are rejected.  7) Claim(s) 2mq 3 is/are objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  Application Papers  9) The proposed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The proposed drawing correction filed on is/are: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  11) The proposed drawing correction filed on is/are: a) approved to make the examiner.  If approved, corrected drawings are required in reply to this Office action.  12) Acknowledgment is made of a cla		Office Action Summary	Examiner	Art Unit			
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THE MAILING DATE OF THIS COMMUNICATION.  Edenance of time may be available under the provisions of 3 CPR 1.136(a). In no event, however, may a reply be limely filed after SK (6) MONTRS from the mailing date of this communication.  It No period to reply is spoilable under the provision of 3 CPR 1.136(a). In no event, however, may a reply be limely filed after SK (6) MONTRS from the mailing date of this communication.  It No period to reply is spoilable under the mailing date of this communication. Fallars to reply visitin the set or extended period for reply visitin the set of visiting the set of							
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### DETAILED ACTION

#### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-19, drawn to a method of preparing metallic nanometer scale wires by electrodepositing a plurality of wires, classified in class 205, subclass 76.
- II. Claim 20, drawn to a wire, classified in class 428.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be made by another and materially different process, such as CVD deposition in pores.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Kenneth Roberts on September 8, 2003 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-19. Affirmation of this election must be made by applicant in replying to this Office action. Claim 20 is withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

# Claim Rejections - 35 USC \$ 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 4-9 and 16-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Zach et al., article entitled, "Molybdenum Nanowires by Electrodeposition".

The Zach reference discloses the claimed method comprising the steps of applying a deposition potential within the claimed range and selectively depositing a plurality of wires from a solution including a metal, such as metal oxide to form nanowires at step edges present on a stepped surface, reducing the metal oxide in hydrogen gas at about the temperature claimed and embedding the metal nanowires in a polymer film and removing the metal nanowires from the stepped surface (see figures 1 and 2 and abstract).

Therefore, since the Zach patent discloses each and every limitation, the claims are anticipated.



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## Allowable Subject Matter

Claims 2-3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 10-15 are allowable over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter: none of the prior art disclose or render obvious the claimed method of using the nucleation pulse before the deposition potential for the electrodeposition step.

Furthermore, none of the prior art discloses the method of preparing beaded nanowires by electrodepositing nanoparticles of a first metal from a first aqueous solution at step edges and electrodepositing wire segments of a second metal from a second aqueous solution at the stepped edges between the nanoparticles to form beaded nanowires.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun 5. Phasge whose telephone number is (703) 308-2528. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X Nguyen can be reached on (703) 308-3322. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Arun S. Phasge Primary Examiner Art Unit 1753

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